

# Market Operations Report

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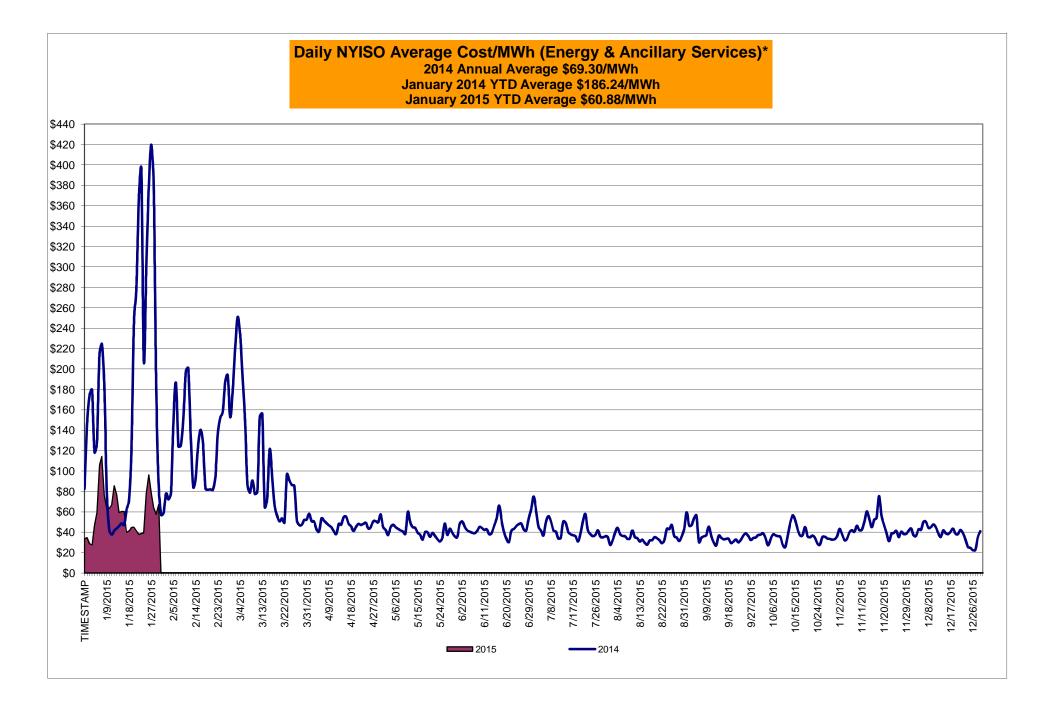
Business Issues Committee Meeting February 11, 2015

# Market Performance Highlights for January 2015

- LBMP for January is \$59.60/MWh; higher than \$38.08/MWh in December 2014 and lower than \$183.36/MWh in January 2014.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to December.
- January 2015 average year-to-date monthly cost of \$60.88/MWh is a 67% decrease from \$186.24/MWh in January 2014.
- Average daily sendout is 462 GWh/day in January; higher than 433 GWh/day in December 2014 and lower than 475 GWh/day in January 2014.
- Natural gas prices were higher compared to the previous month and distillate prices were lower compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$7.90/MMBtu, up 141% from \$3.28/MMBtu in December.
    - Transco Z6 NY is down 71% year-over-year
  - Jet Kerosene Gulf Coast was \$11.19/MMBtu, down from \$13.29/MMBtu in December.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$12.08/MMBtu, down from \$14.50/MMBtu in December.
- Distillate prices are down nearly 50% year-over-year
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.50)/MWh; lower than (\$0.21)/MWh in December.
    - The Local Reliability Share is \$0.25/MWh, higher than \$0.13 in December.
    - The Statewide Share is (\$0.75)/MWh, lower than (\$0.34)/MWh in December.
  - TSA \$ per NYC MWh is \$0.00/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than December.

2/9/2015

Market Mitigation and Analysis



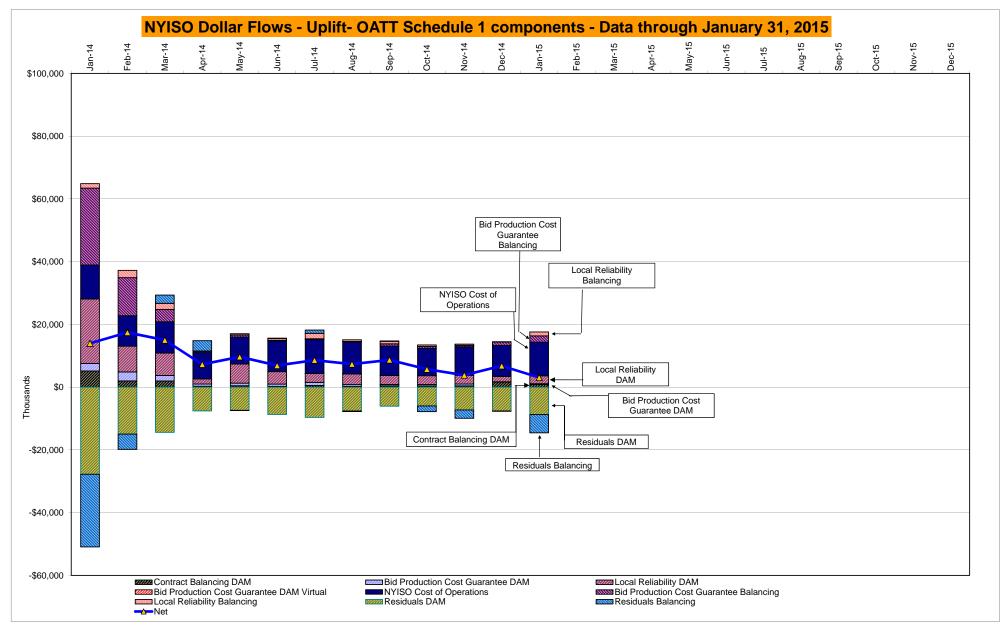
\* Excludes ICAP payments.

#### NYISO Average Cost/MWh (Energy and Ancillary Services)\* from the LBMP Customer point of view

2015	January	<u>February</u>	March	April	May	June	July	August	September	October	November	December
LBMP	59.60	<u> </u>	<u></u>	<u></u>	<u></u>		<u></u> ,	<u></u>				
NTAC	0.32											
Reserve	0.27											
Regulation	0.10											
NYISO Cost of Operations	0.70											
Uplift	(0.50)											
Uplift: Local Reliability Share Uplift: Statewide Share	0.25 (0.75)											
Voltage Support and Black Start	0.39											
Avg Monthly Cost	60.88											
Avg Monthly Cost	00.00											
Avg YTD Cost	60.88											
TSA \$ per NYC MWh	0.00											
2014	January	February	March	April	May	June	<u>July</u>	<u>August</u>	<u>September</u>	October	November	December
LBMP	183.36	123.19	109.58	46.09	40.30	43.39	43.97	34.48	37.62	35.59	42.88	38.08
NTAC	0.56	0.64	0.39	1.18	0.69	0.78	0.43	0.41	0.50	0.57	0.69	0.86
Reserve	0.78	0.49	0.56	0.46	0.28	0.27	0.26	0.26	0.29	0.47	0.37	0.23
Regulation	0.27	0.21	0.22	0.13	0.12	0.12	0.12	0.13	0.11	0.12	0.11	0.08
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Uplift	0.22	0.56	0.35	(0.09)	0.07	(0.21)	(0.26)	(0.19)	(0.20)	(0.24)	(0.40)	(0.21)
Uplift: Local Reliability Share	1.43	0.75	0.62	0.15	0.51	0.32	0.29	0.27	0.26	0.26	0.24	0.13
Uplift: Statewide Share	(1.21)	(0.19)	(0.27)	(0.24)	(0.44)	(0.53)	(0.55)	(0.45)	(0.46)	(0.50)	(0.64)	(0.34)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	186.24	126.14	112.15	48.82	42.51	45.39	45.57	36.14	39.37	37.57	44.70	40.09
Avg YTD Cost	186.24	157.93	142.77	121.97	108.36	97.84	89.46	82.60	78.07	74.63	72.06	69.30
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.00	0.42	0.00	0.00	0.00
2013	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	79.77	85.76	48.94	44.47	52.21	50.17	68.49	40.81	44.24	39.85	43.30	66.41
NTAC	0.79	0.83	0.76	0.90	0.85	0.86	0.66	0.28	0.57	0.87	1.08	0.59
Reserve	0.38	0.44	0.43	0.36	0.49	0.34	0.50	0.32	0.38	0.42	0.38	0.44
Regulation	0.13	0.13	0.10	0.11	0.09	0.13	0.11	0.13	0.13	0.16	0.13	0.12
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Uplift	0.21	(0.15)	(0.33)	0.02	0.41	0.49	2.06	0.03	(0.05)	0.18	(0.07)	(0.25)
Uplift: Local Reliability Share	0.44	0.40	0.19	0.37	0.58	0.81	1.27	0.49	0.31	0.38	0.19	0.12
Uplift: Statewide Share	(0.23)	(0.55)	(0.52)	(0.35)	(0.17)	(0.31)	0.79	(0.46)	(0.36)	(0.19)	(0.25)	(0.37)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	82.34	88.06	50.96	46.91	55.10	53.05	72.87	42.62	46.31	42.54	45.88	68.36
Avg YTD Cost	82.34	85.08	74.02	67.80	65.46	63.36	65.10	62.27	60.74	59.30	58.24	59.13
TSA \$ per NYC MWh	0.00	0.00	0.00	0.04	0.58	0.61	1.52	0.43	0.22	0.01	0.00	0.00
* Evoludos ICAP povmonto										Data re	flacts true ups the	n Ang 2014

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 2/9/2015 8:39 AM

Data reflects true-ups thru Aug 2014.



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches. DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart. DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

#### NYISO Markets Transactions

				N	150 Mar	kets I rans	sactions					
<u>2015</u>	January	<u>February</u>	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh	15,961,306	-		-	-		-	-	-			
DAM LSE Internal LBMP Energy Sales	55%											
DAM External TC LBMP Energy Sales	5%											
DAM Bilateral - Internal Bilaterals	35%											
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	3%											
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%											
DAM Bilateral - Wheel Through Bilaterals	0%											
Balancing Energy Market MWh	-648,574											
Balancing Energy LSE Internal LBMP Energy Sales	-149%											
Balancing Energy External TC LBMP Energy Sales	30%											
Balancing Energy Bilateral - Internal Bilaterals	13%											
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%											
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%											
Balancing Energy Bilateral - Wheel Through Bilaterals	0%											
Transactions Summary												
LBMP	58%											
Internal Bilaterals	37%											
Import Bilaterals	3%											
Export Bilaterals	2%											
Wheels Through	0%											
Market Share of Total Load												
Day Ahead Market	104.2%											
Balancing Energy +	-4.2%											
Total MWH	15,312,732											
Average Daily Energy Sendout/Month GWh	462											
<u>2014</u>	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh	16,034,264	14,409,515	14,633,570	12,101,747	12,984,458	14,719,929	16,528,338	15,536,610	14,312,509	13,684,158	13,945,509	14,992,656
DAM LSE Internal LBMP Energy Sales	52%	50%	53%	56%	53%	54%	58%	57%	56%	54%	54%	54%
DAM External TC LBMP Energy Sales	5%	7%	6%	3%	2%	3%	1%	0%	1%	2%	5%	5%
DAM Bilateral - Internal Bilaterals	36%	36%	35%	33%	38%	36%	34%	35%	36%	38%	36%	36%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	5%	4%	4%	3%	3%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	1%	2%	2%	1%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	0%	0%
Balancing Energy Market MWh	-249,484	-298,340	-116,173	54,298	-510,467	-558,413	-854,501	-764,108	-672,451	-994,214	-746,664	-707,436
Balancing Energy LSE Internal LBMP Energy Sales	-232%	-203%	-294%	-190%	-133%	-114%	-116%	-117%	-129%	-124%	-134%	-137%
Balancing Energy External TC LBMP Energy Sales	105%	76%	97%	207%	21%	22%	18%	15%	24%	14%	21%	28%
Balancing Energy Bilateral - Internal Bilaterals	20%	26%	69%	27%	3%	7%	4%	7%	7%	7%	9%	4%
Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals	0%	0%	12%	0%	3%	0%	0%	0%	2%	1%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	11%	6%	25%	67%	4%	3%	2%	2%	3%	3%	5%	3%
Balancing Energy Bilateral - Wheel Through Bilaterals	-4%	-6%	-10%	-12%	1%	-18%	-8%	-7%	-7%	-1%	0%	1%
Transactions Summary	170	370	. 570	.270	170	.070	370	. 70	. 70	170	570	. 70
	500/	500/	<b>F7</b> 0/	500/	500/	550/	==0/	==0/	550/	500/	<b>FF0</b> (	500/

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

Average Daily Energy Sendout/Month GWh

\* The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

56%

37%

5%

2%

1%

101.6%

-1.6%

475

56%

37%

5%

1%

1%

102.1%

-2.1%

460

57%

36%

5%

2%

1%

100.8%

-0.8%

440

15,784,780 14,111,175 14,517,397 12,156,045 12,473,991 14,161,516

59%

33%

6%

2%

0%

99.6%

0.4%

390

55%

38%

5%

1%

1%

103.9%

-3.9%

456

57%

36%

5%

1%

1%

105.5%

-5.5%

496

55%

37%

5%

2%

1%

105.2%

-5.2%

470

55%

38%

5%

2%

1%

104.9%

-4.9%

442

15,673,837 14,772,502 13,640,058 12,689,944 13,198,845 14,285,220

53%

39%

5%

2%

1%

104.1%

-4.1%

391

Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

55%

39%

4%

2%

1%

105.7%

-5.7%

413

56%

38%

3%

2%

0%

105.0%

-5.0%

433

52%

42%

4%

2%

0%

107.8%

-7.8%

394

Market Mitigation and Analysis Prepared: 2/5/2015 10:57 AM

LBMP

Internal Bilaterals

Import Bilaterals

Export Bilaterals

Wheels Through

Balancing Energy +

Total MWH

Market Share of Total Load Day Ahead Market

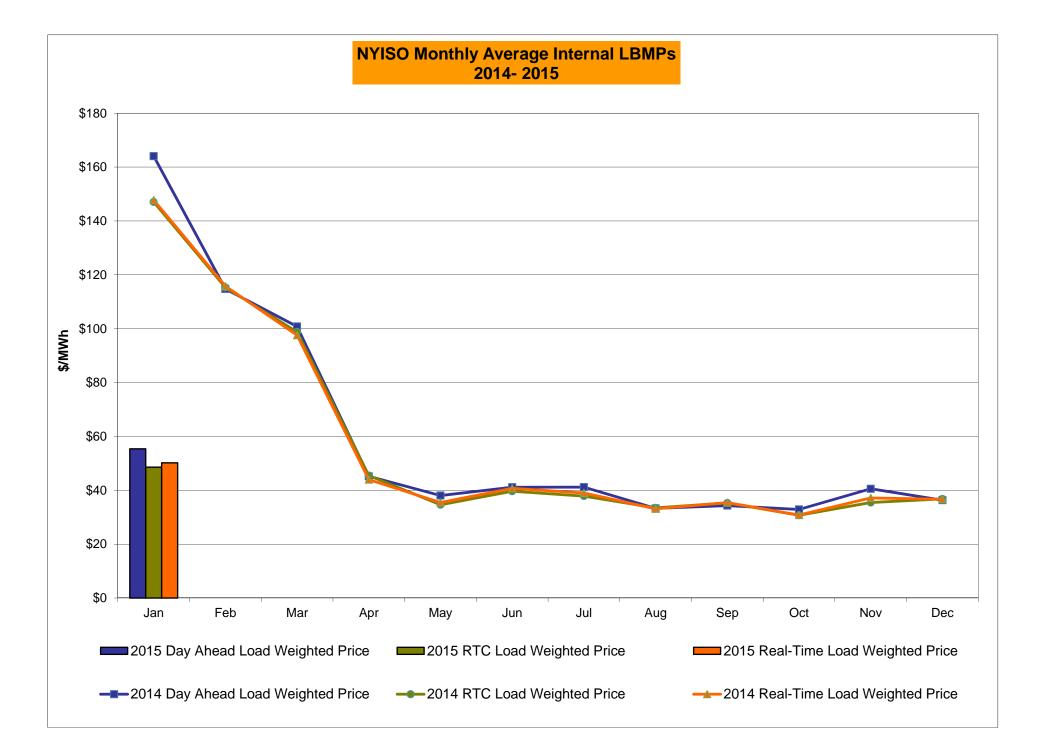
#### NYISO Markets 2015 Energy Statistics

	<u>January</u>	<b>February</b>	March	<u>April</u>	May	June	<u>July</u>	August	September	October November December
DAY AHEAD LBMP										
Price *	\$53.35									
Standard Deviation	\$24.61									
Load Weighted Price **	\$55.40									
RTC LBMP										
Price *	\$46.98									
Standard Deviation	\$22.84									
Load Weighted Price **	\$48.59									
<u>REAL TIME LBMP</u>										
Price *	\$48.51									
Standard Deviation	\$25.99									
Load Weighted Price **	\$50.18									
Average Daily Energy Sendout/Month GWh	462									

#### NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August S	<u>September</u>	<u>October</u>	November [	<u>December</u>
DAY AHEAD LBMP Price * Standard Deviation	\$155.11 \$121.52	\$110.69 \$50.86	\$97.07 \$59.89	\$44.16 \$8.90	\$36.61 \$10.99	\$39.17 \$12.29	\$38.82 \$15.56	\$31.78 \$9.90	\$32.49 \$11.59	\$31.65 \$9.77	\$39.19 \$13.38	\$35.12 \$11.21
Load Weighted Price **	\$164.06	\$50.86 \$114.77	\$100.81	\$45.19	\$38.05	\$12.29 \$41.14	\$41.18	\$9.90 \$33.28	\$34.31	\$9.77 \$32.89	\$40.57	\$36.33
<u>RTC LBMP</u> Price * Standard Deviation Load Weighted Price **	\$138.41 \$125.42 \$147.06	\$110.71 \$72.22 \$115.31	\$94.71 \$97.72 \$98.80	\$44.00 \$27.44 \$45.48	\$33.16 \$17.51 \$34.63	\$37.34 \$25.39 \$39.64	\$35.32 \$24.90 \$37.85	\$31.74 \$23.34 \$33.48	\$32.89 \$33.68 \$35.31	\$29.23 \$20.45 \$30.74	\$34.27 \$14.23 \$35.46	\$34.99 \$35.81 \$36.79
REAL TIME LBMP Price * Standard Deviation Load Weighted Price **	\$137.90 \$122.32 \$147.77	\$111.51 \$70.35 \$115.80	\$93.37 \$89.05 \$97.58	\$42.79 \$19.38 \$43.97	\$34.06 \$17.15 \$35.46	\$38.23 \$23.33 \$40.71	\$35.97 \$27.27 \$39.00	\$31.21 \$18.18 \$33.13	\$32.50 \$33.51 \$35.42	\$29.36 \$21.14 \$30.81	\$36.01 \$17.99 \$37.17	\$34.80 \$42.67 \$36.69
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

\* Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

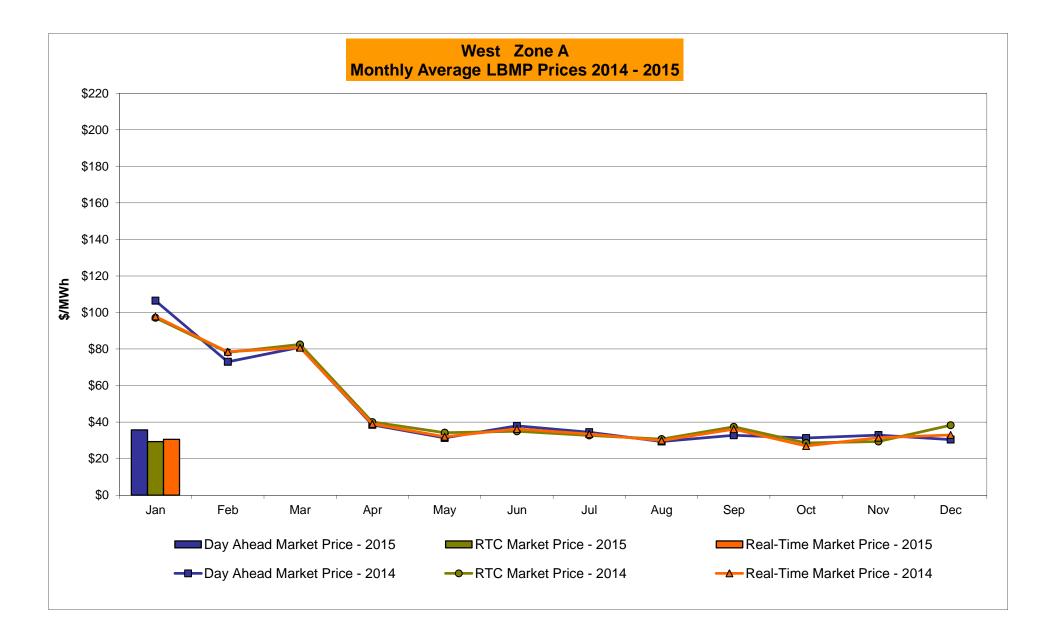


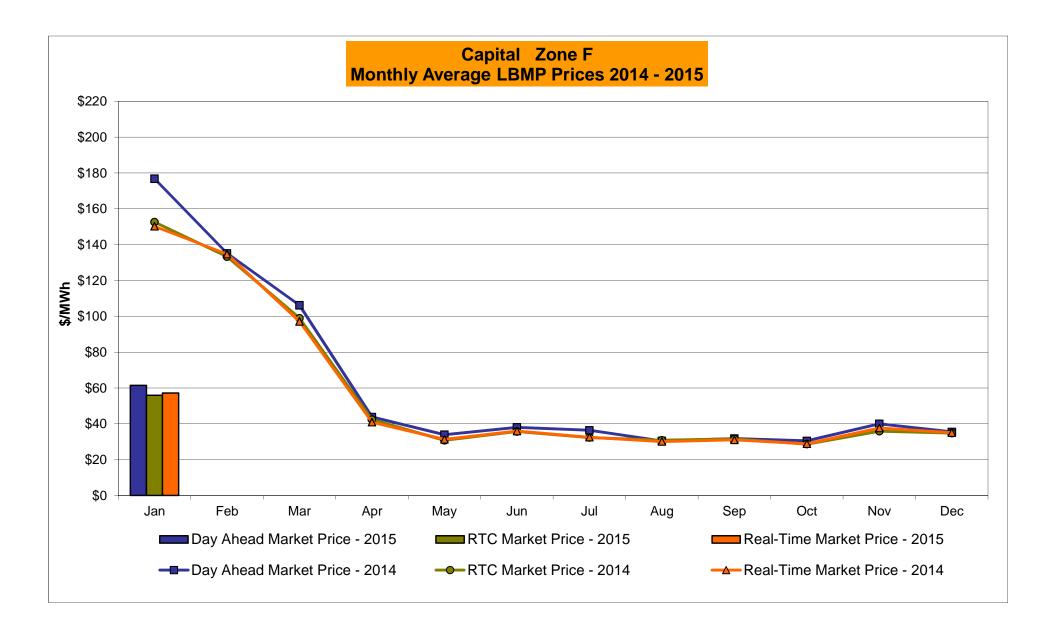
#### January 2015 Zonal LBMP Statistics for NYISO (\$/MWh)

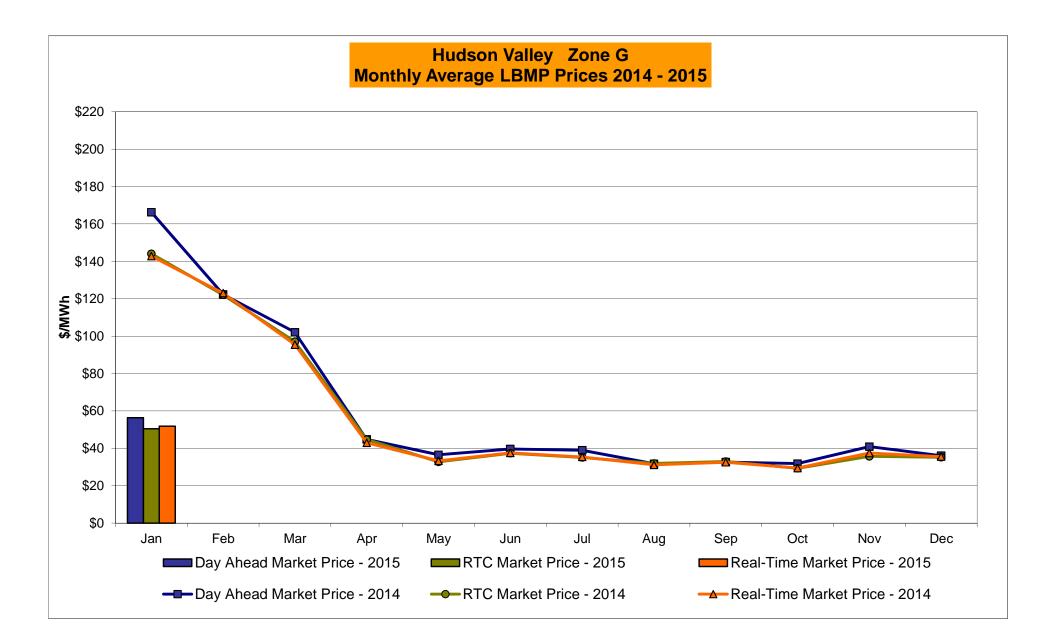
	WEST <u>Zone A</u>	GENESEE Zone B	NORTH <u>Zone D</u>	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE <u>Zone I</u>	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP	05.00	05 70	00.54	07.04	00.00	04.50	50.00	50.00	50.55	57.04	70.04
Unweighted Price *	35.69	35.73	33.51	37.81	39.29	61.50	56.39	56.83	56.55	57.34	79.91
Standard Deviation	17.25	18.86	20.60	20.18	21.45	28.81	25.98	26.18	26.03	26.78	38.38
RTC LBMP											
Unweighted Price *	29.32	31.15	29.37	33.46	34.43	55.96	50.49	50.86	50.58	51.14	68.75
Standard Deviation	15.04	17.31	19.79	19.67	19.60	30.58	25.22	25.53	25.33	25.51	46.44
REAL TIME LBMP											
Unweighted Price *	30.55	32.53	30.89	34.93	35.93	57.16	51.81	52.18	51.88	52.85	72.59
Standard Deviation	18.08	21.43	24.41	24.42	24.39	34.00	28.95	29.23	29.01	29.58	49.52

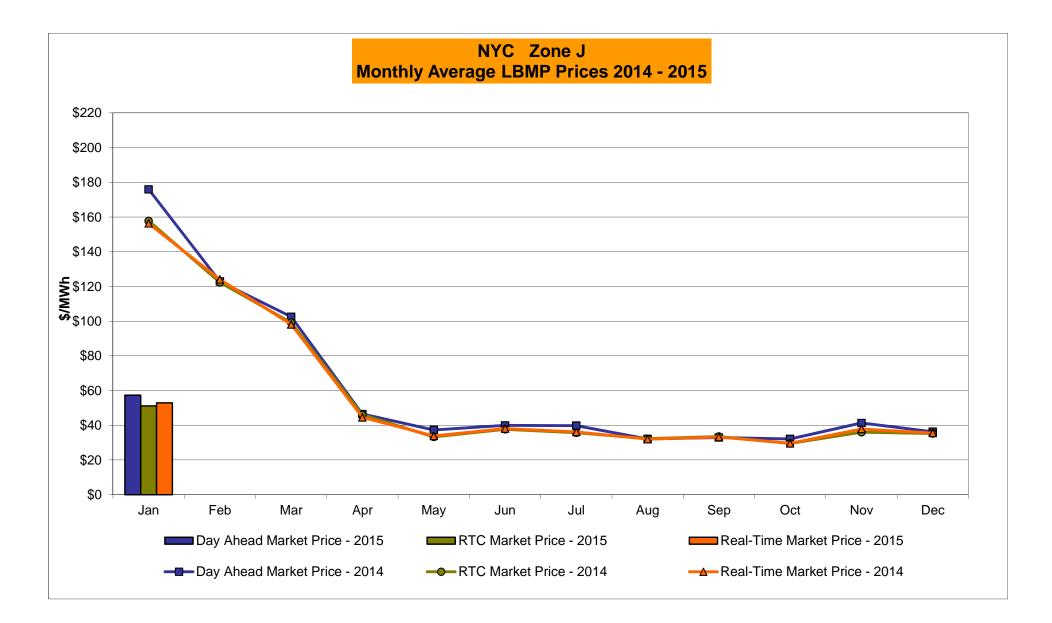
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						Controllable	Controllable	Controllable	Controllable	Controllable	Controllable
	<u>Zone O</u>	<u>Zone M</u>	Zone M	<u>Zone P</u>	<u>Zone N</u>	Line	Line	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	34.78	34.10	34.05	45.88	67.37	75.45	70.86	72.79	56.40	56.79	33.09
Standard Deviation	16.60	21.22	21.21	20.76	25.59	34.05	28.80	32.58	26.23	26.21	20.74
RTC LBMP											
Unweighted Price *	29.55	29.27	29.19	40.27	53.64	60.52	59.32	56.60	50.44	50.88	29.01
Standard Deviation	14.93	19.92	19.97	20.25	28.07	31.83	30.79	29.56	25.37	25.59	19.72
REAL TIME LBMP											
Unweighted Price *	31.13	30.74	30.66	41.24	65.88	65.11	64.23	61.45	52.11	52.22	30.20
Standard Deviation	19.87	24.66	24.72	23.92	33.98	40.20	38.78	37.97	29.35	29.32	24.36

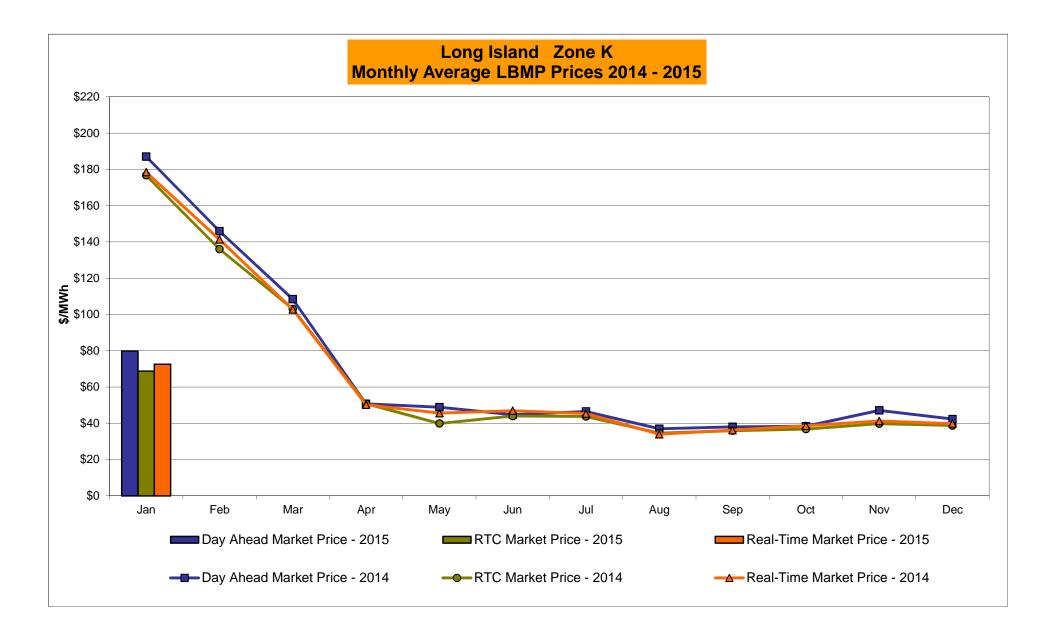
\* Straight LBMP averages

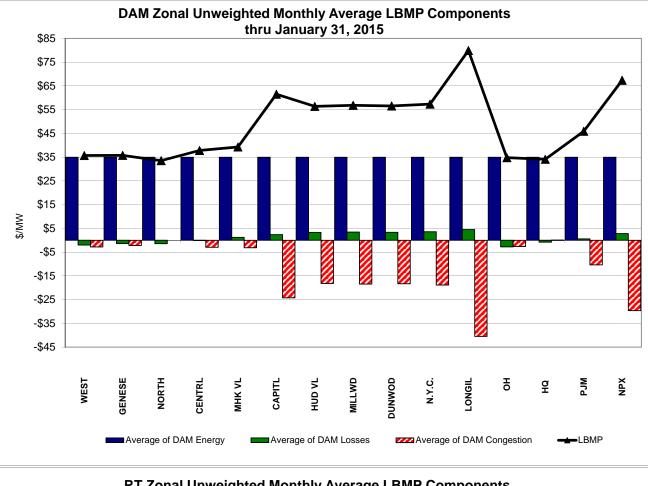


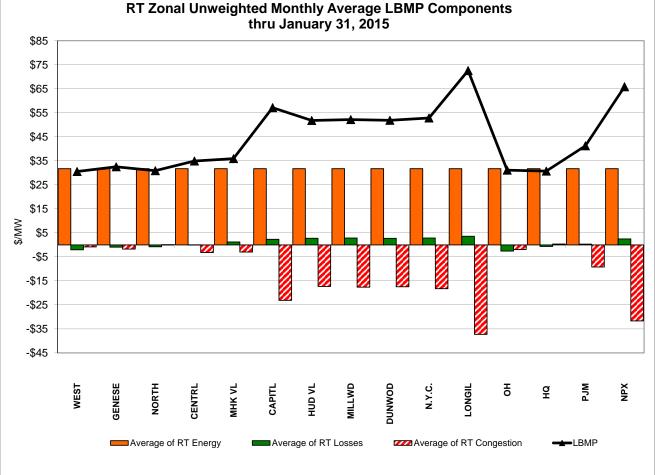






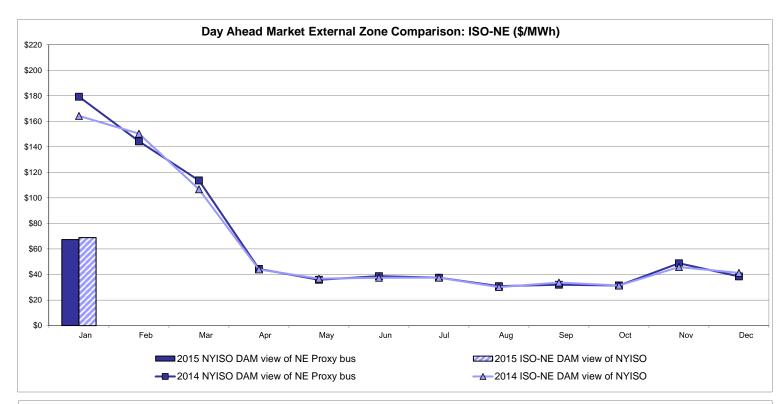


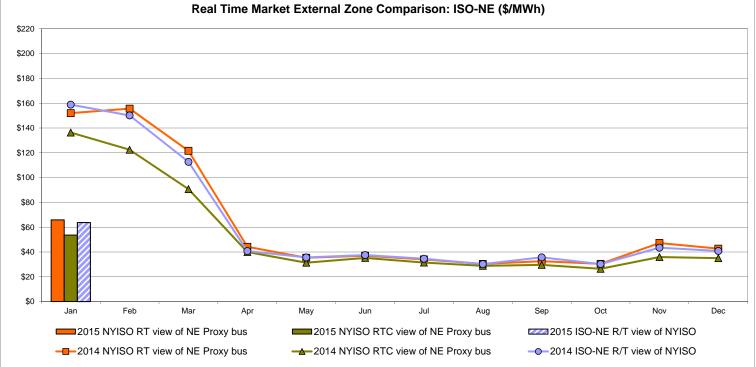


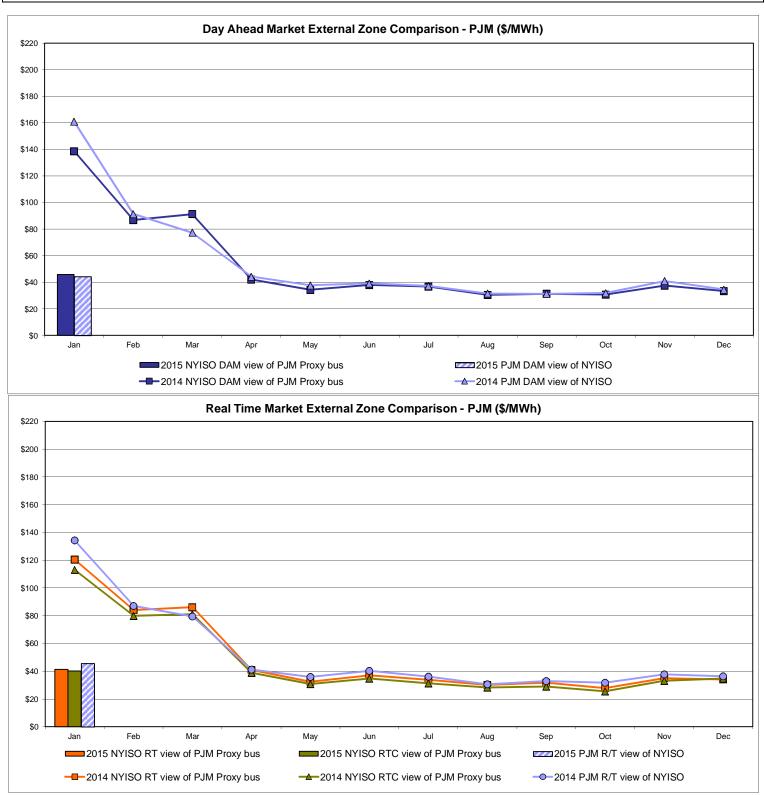


Market Mitigation and Analysis Prepared:2/4/2015 9:37 AM

# **External Comparison ISO-New England**

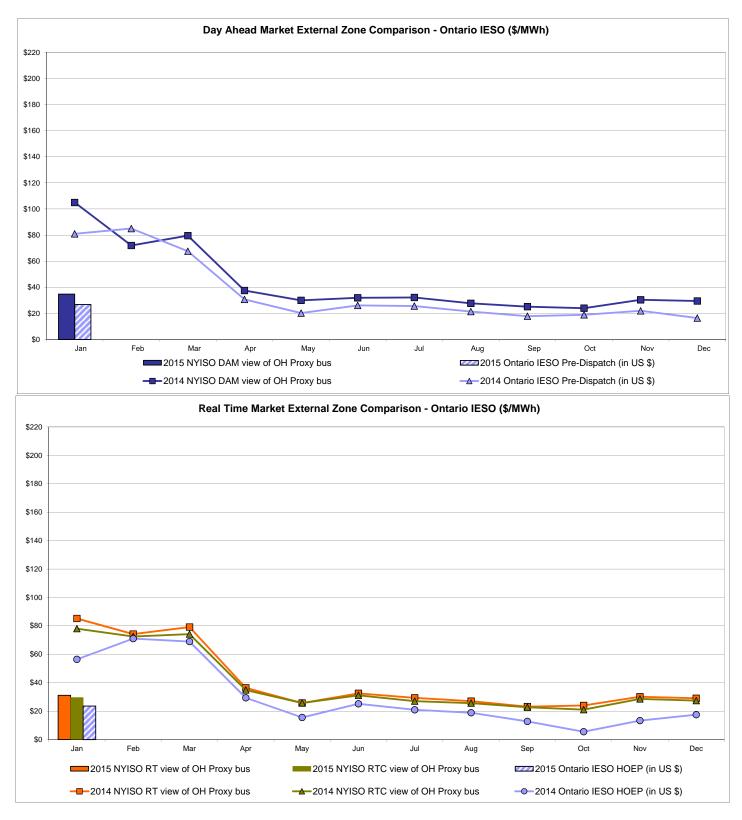




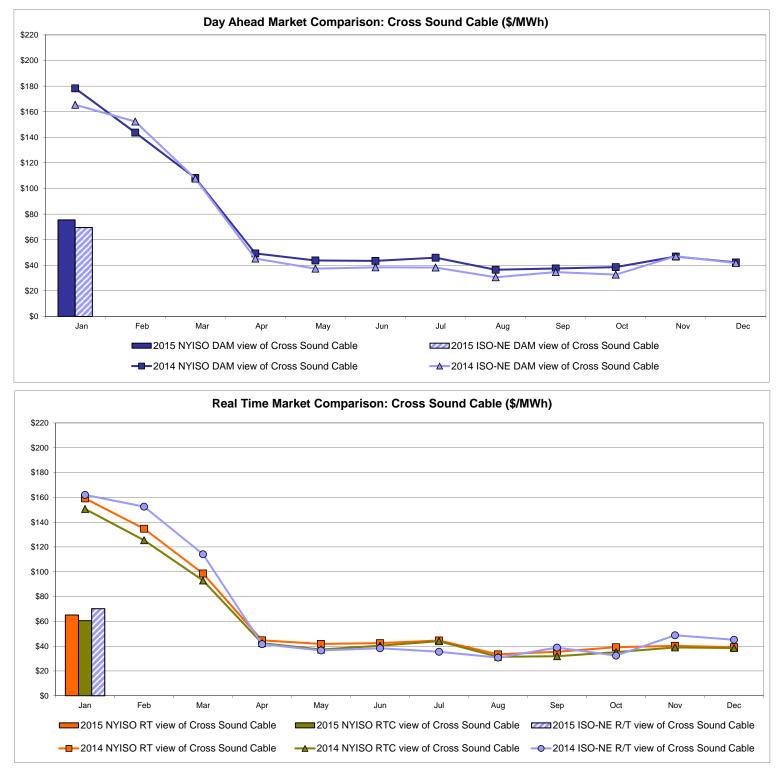


# **External Comparison PJM**

## **External Comparison Ontario IESO**



Notes: Exchange factor used for January 2015 was 0.8249 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



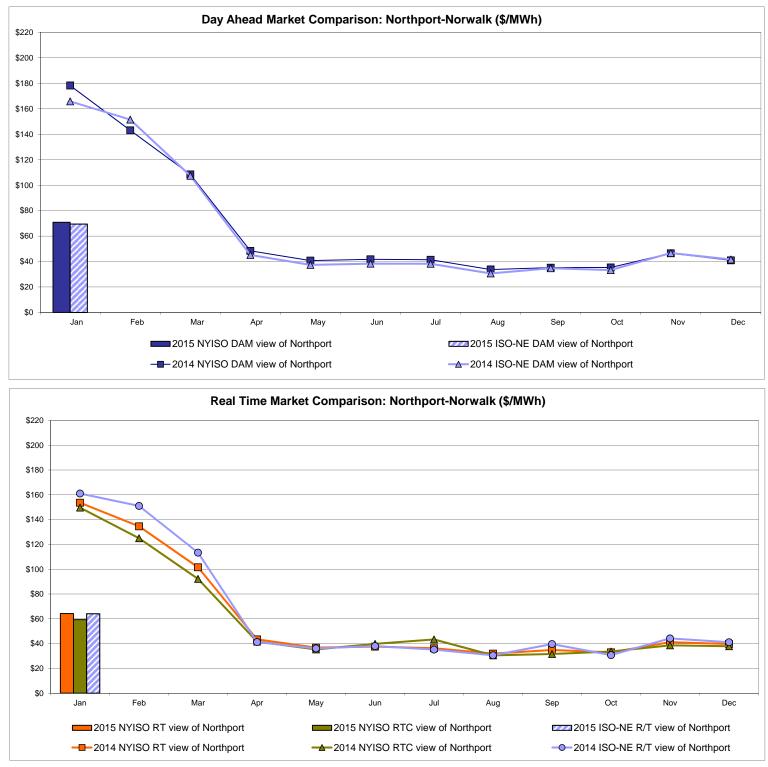
## External Controllable Line: Cross Sound Cable (New England)

Note:

ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.

The DAM and R/T prices at the CSC interface are used for NYISO.



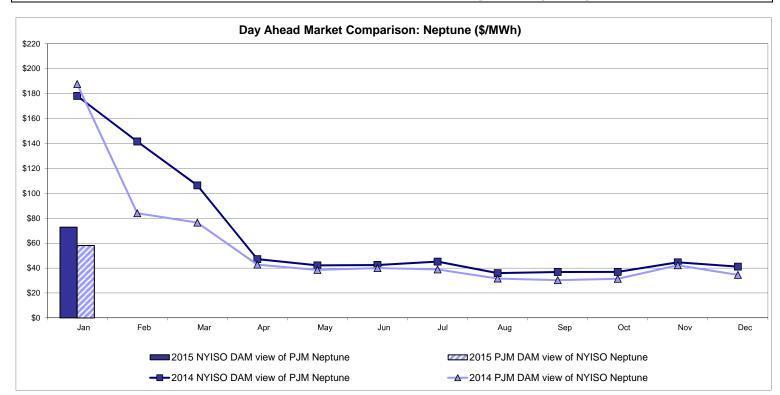
## External Controllable Line: Northport - Norwalk (New England)

Note:

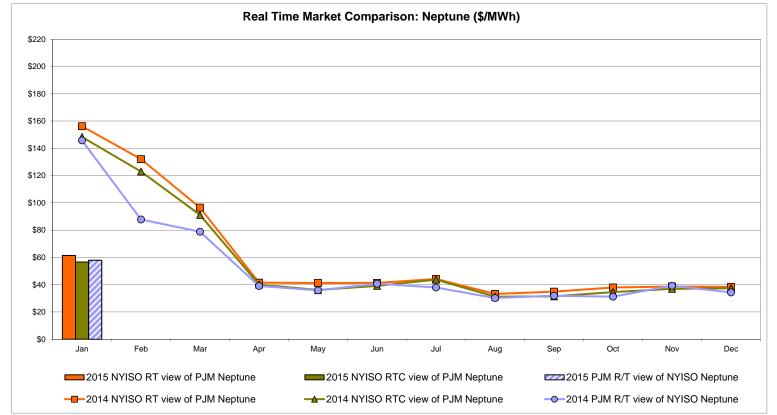
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.

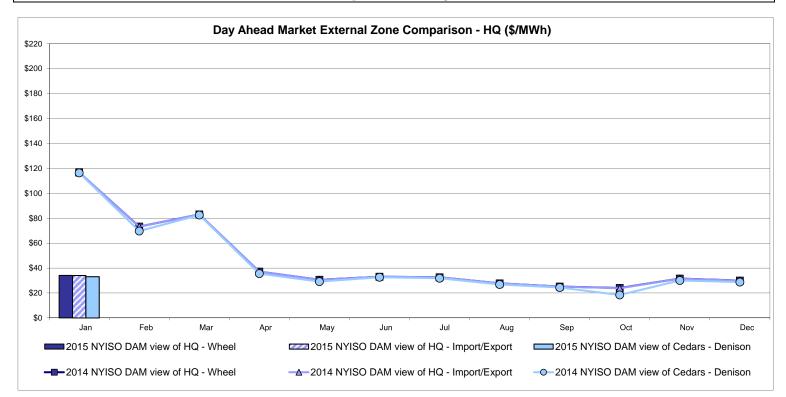
The DAM and R/T prices at the 1385 interface are used for NYISO.

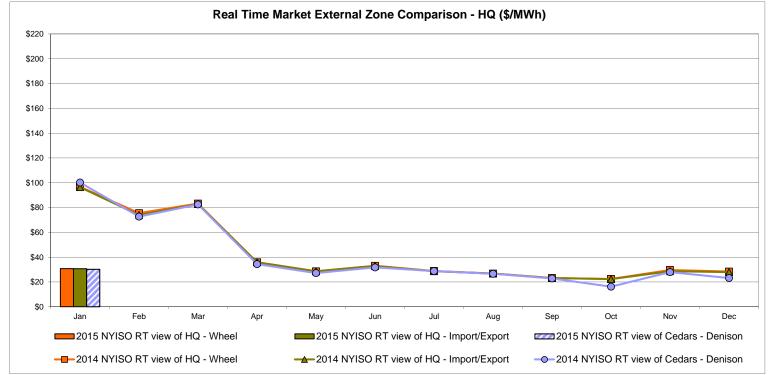


# External Controllable Line: Neptune (PJM)



# **External Comparison Hydro-Quebec**

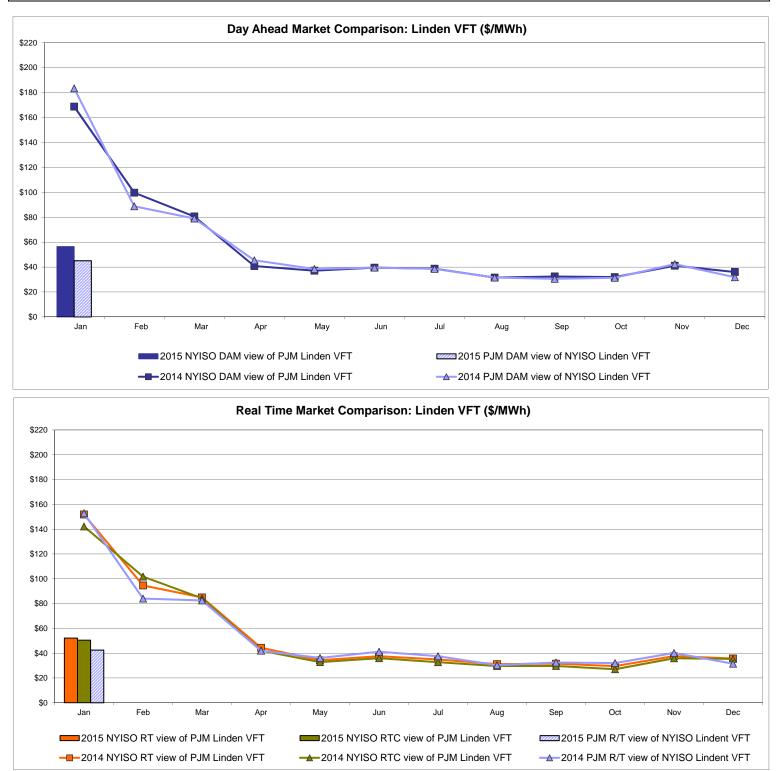




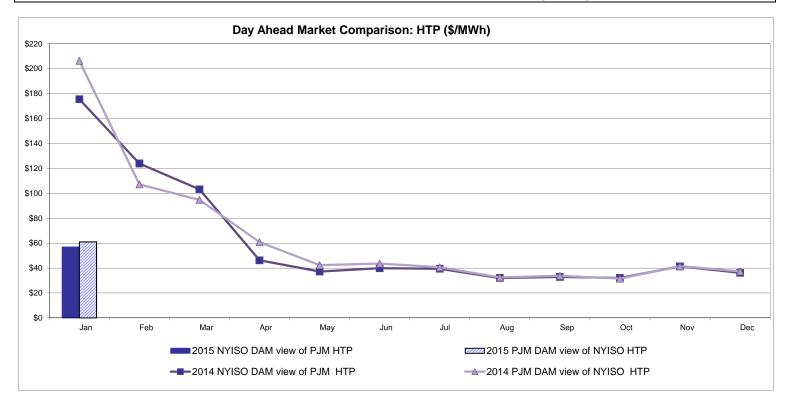
Note:

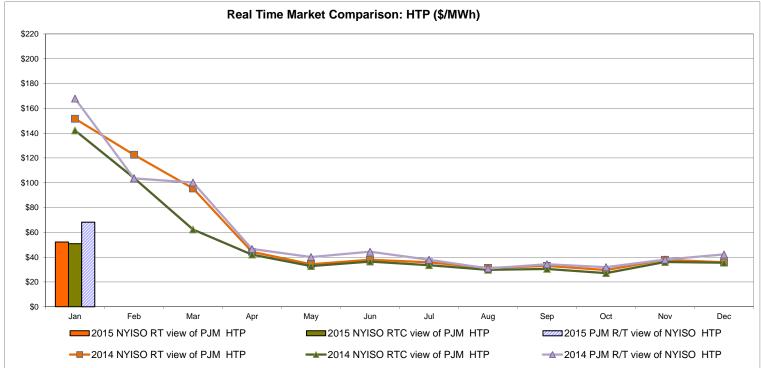
Hydro-Quebec Prices are unavailable.





# External Controllable Line: Hudson (PJM)

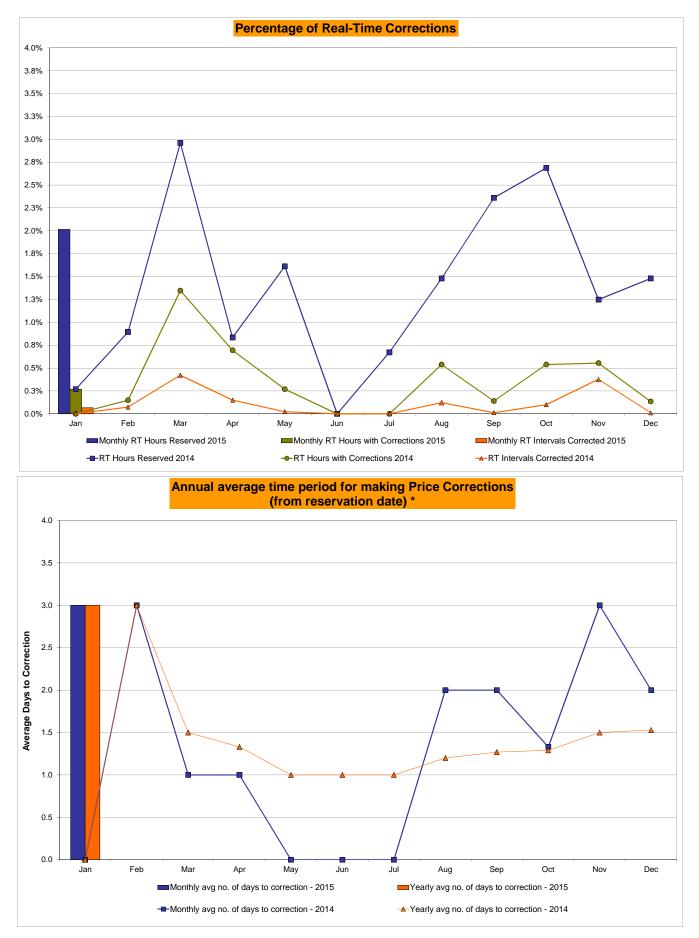




#### **NYISO Real Time Price Correction Statistics**

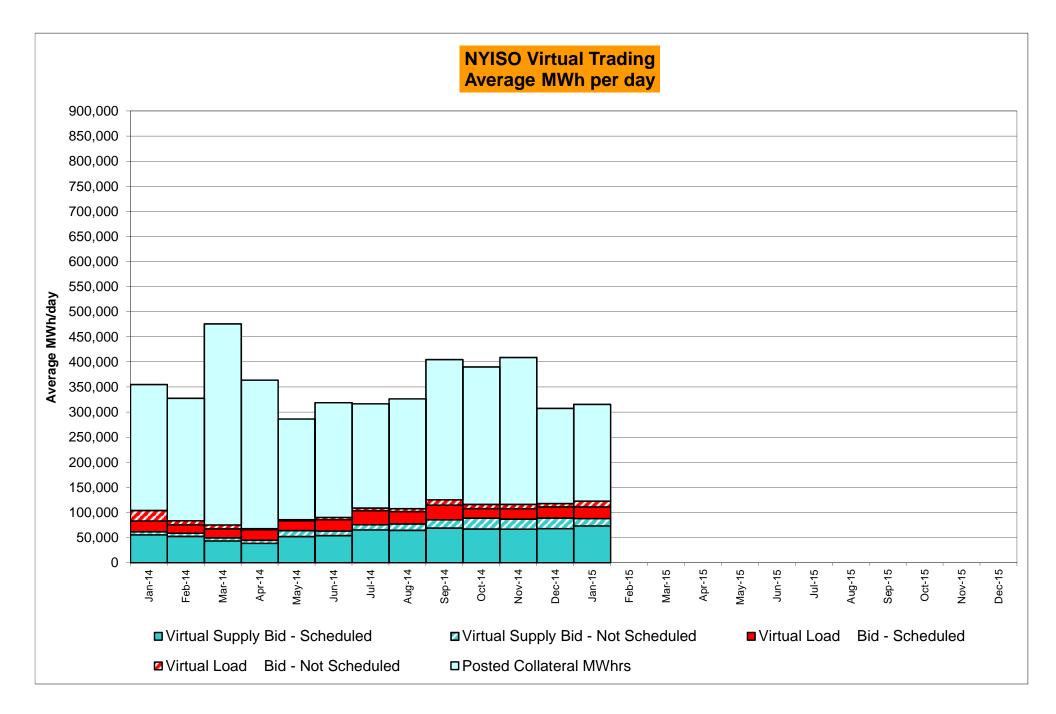
<u>2015</u>		January	February	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections		0											
Number of hours with corrections	in the month	2											
Number of hours	in the month	744											
% of hours with corrections	in the month	0.27%											
% of hours with corrections	year-to-date	0.27%											<u> </u>
Interval Corrections													
Number of intervals corrected	in the month	6											
Number of intervals	in the month	9,066											
% of intervals corrected	in the month	0.07%											
% of intervals corrected	year-to-date	0.07%											
Hours Reserved													
Number of hours reserved	in the month	15											
Number of hours	in the month	744											
% of hours reserved	in the month	2.02%											
% of hours reserved	vear-to-date	2.02%											
Days to Correction *	Jour to duto	2:0270											
Avg. number of days to correction	in the month	3.00											
Avg. number of days to correction	year-to-date	3.00											
Days Without Corrections	)												
Days without corrections	in the month	30											
Days without corrections	year-to-date	30											
,													
<u>2014</u>		<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
2014 Hour Corrections		<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
	in the month	<u>January</u> 0	1	<u>March</u> 10	<u>April</u> 5	<u>May</u> 2	<u>June</u> 0	<u>July</u> 0	<u>August</u> 4	<u>September</u> 1	<u>October</u> 4	<u>November</u> 4	<u>December</u> 1
Hour Corrections	in the month in the month												
Hour Corrections Number of hours with corrections		0	1	10	5	2	0	0	4	1	4	4	1
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	1 672	10 743	5 720	2 744	0 720	0 744	4 744	1 720	4 744	4 721	1 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	1 672 0.15%	10 743 1.35%	5 720 0.69%	2 744 0.27%	0 720 0.00%	0 744 0.00%	4 744 0.54%	1 720 0.14%	4 744 0.54%	4 721 0.55%	1 744 0.13%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	0 744 0.00%	1 672 0.15%	10 743 1.35%	5 720 0.69%	2 744 0.27%	0 720 0.00%	0 744 0.00%	4 744 0.54%	1 720 0.14%	4 744 0.54%	4 721 0.55%	1 744 0.13%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	0 744 0.00% 0.00%	1 672 0.15% 0.07%	10 743 1.35% 0.51%	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35%	4 744 0.54% 0.38%	1 720 0.14% 0.35%	4 744 0.54% 0.37%	4 721 0.55% 0.39%	1 744 0.13% 0.37%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	0 744 0.00% 0.00%	1 672 0.15% 0.07%	10 743 1.35% 0.51% 38	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35%	4 744 0.54% 0.38%	1 720 0.14% 0.35%	4 744 0.54% <u>0.37%</u> 9	4 721 0.55% 0.39% 33	1 744 0.13% <u>0.37%</u> 1
Hour Corrections           Number of hours with corrections           Number of hours           % of hours with corrections           % of hours with corrections           Interval Corrections           Number of intervals corrected           Number of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,232	1 672 0.15% 0.07% 6 8,205	10 743 1.35% 0.51% 38 9,023	5 720 0.69% 0.56% 13 8,720	2 744 0.27% 0.50% 2 9,030	0 720 0.00% 0.41% 0 8,729	0 744 0.00% 0.35% 0 8,999	4 744 0.54% 0.38% 11 8,975	1 720 0.14% 0.35% 1 8,779	4 744 0.54% 0.37% 9 9,026	4 721 0.55% 0.39% 33 8,763	1 744 0.13% <u>0.37%</u> 1 9,030
Hour Corrections         Number of hours with corrections         Number of hours         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected	in the month in the month year-to-date in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% 0.11%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11 744
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 6 672 0.89% 0.56%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83% 1.25%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00
Hour Corrections         Number of hours with corrections         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 6 672 0.89% 0.56%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83% 1.25%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38%
Hour Corrections         Number of hours with corrections         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved         Avg. number of days to correction Avg. number of days to correction         Avg. Number of days to correction	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00 1.50	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00 1.33	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00 1.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00 1.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00 1.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00 1.20	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00 1.27	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33 1.29	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00 1.50	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00 1.53
Hour Corrections         Number of hours with corrections         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00

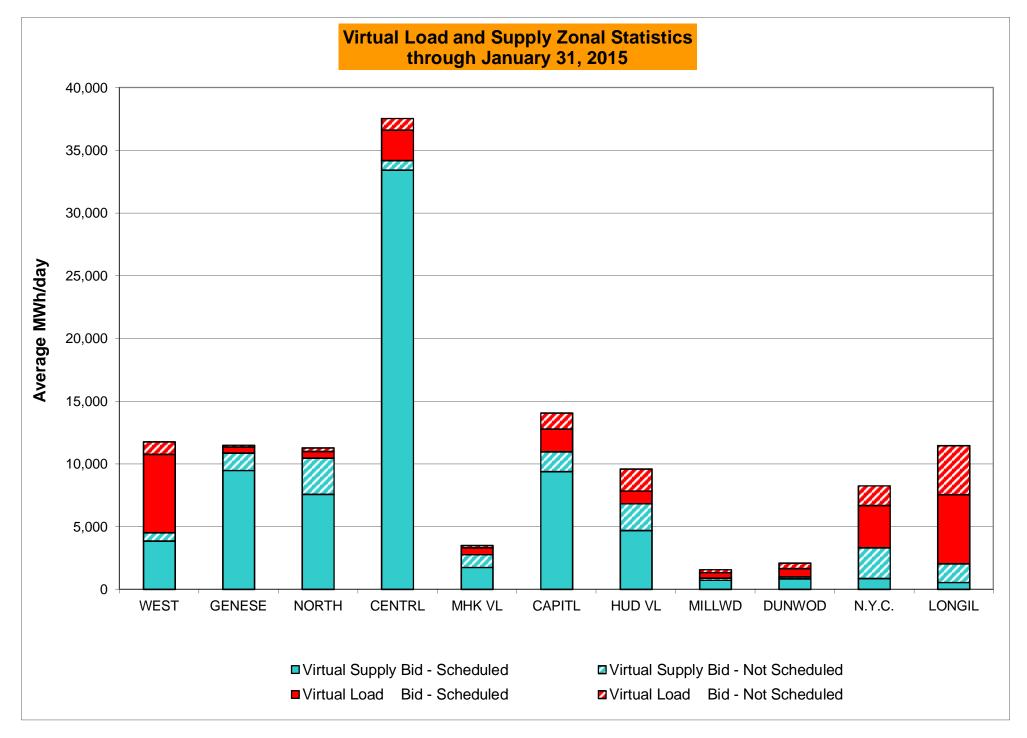
\* Calendar days from reservation date.



\* Calendar days from reservation date.

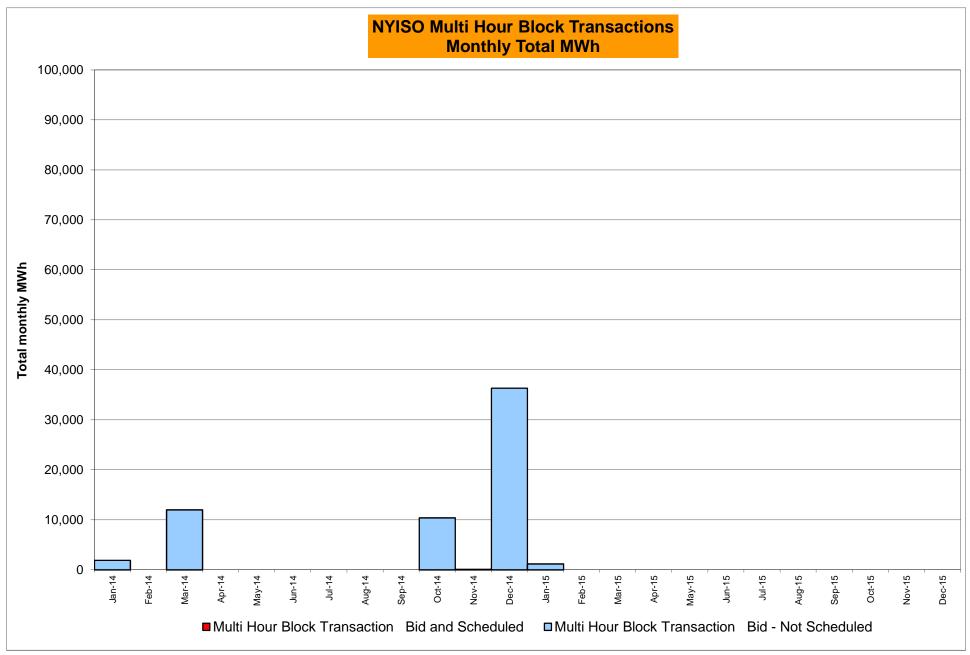
Market Mitigation and Analysis Prepared: 2/9/2015 8:20 AM



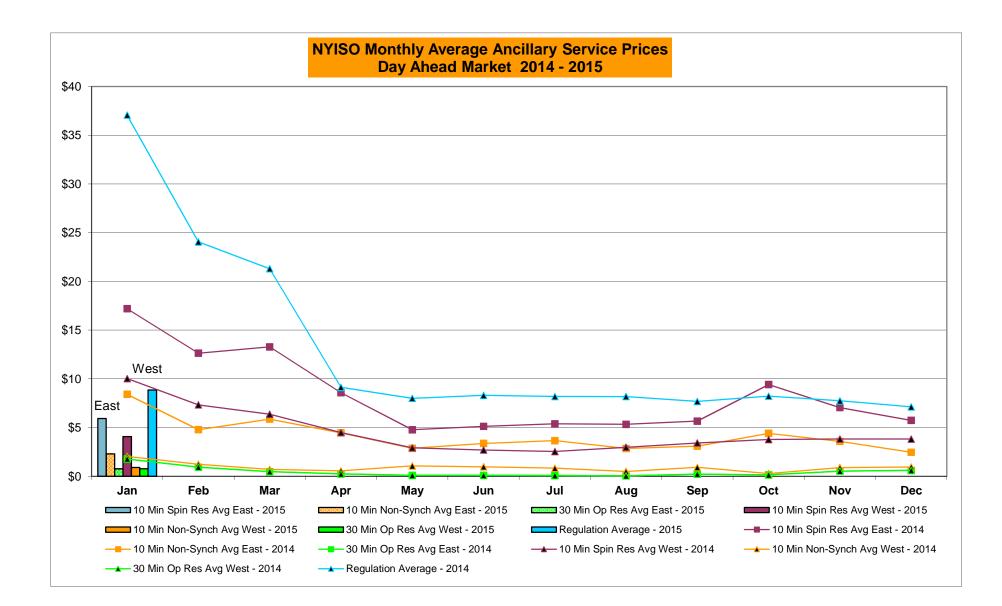


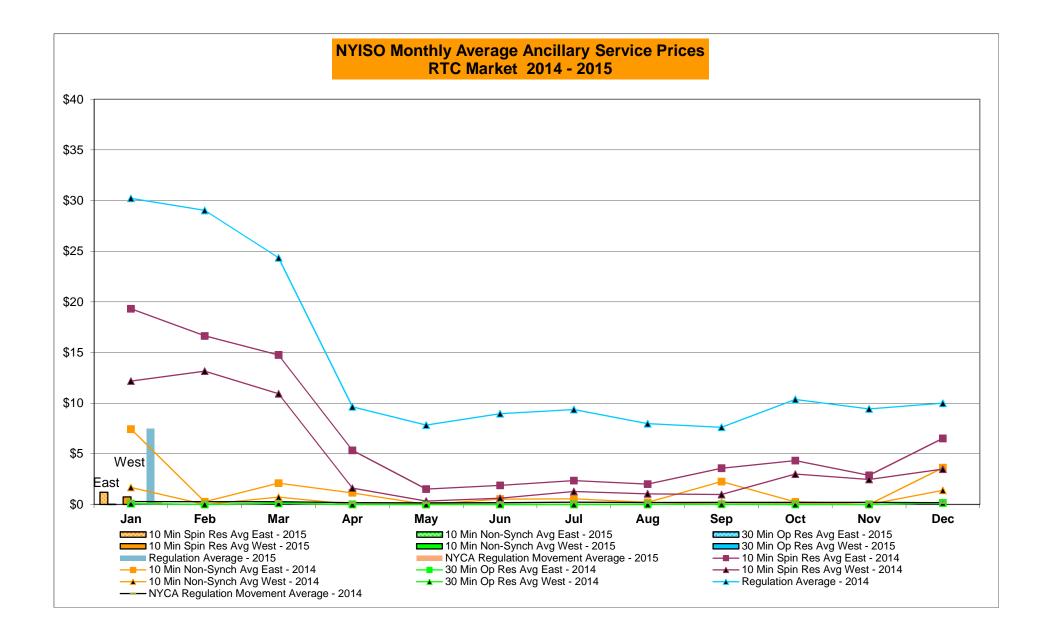
### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2015

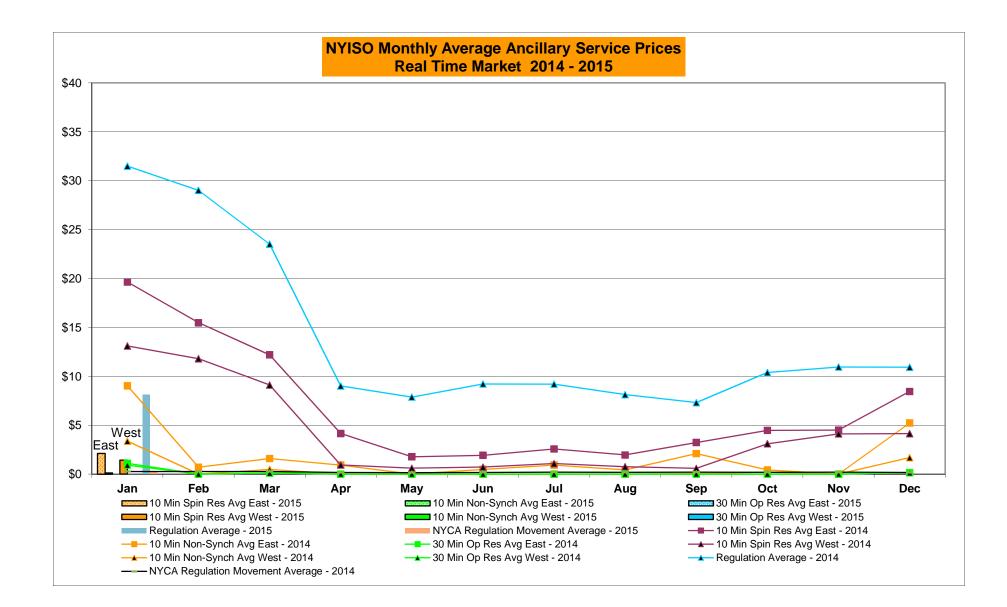
		Virtual L	oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	Ipply Bid			Virtual I	oad Bid	Virtual Su	oply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-15	6,244	977	3,837	688	MHK VL	Jan-15	534	185	1,757	1,021	DUNWOD	Jan-15	669	444	831	166
	Feb-15						Feb-15						Feb-15				
	Mar-15						Mar-15						Mar-15				
	Apr-15						Apr-15						Apr-15				
	May-15						May-15						May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15						Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
	1		4.47	0.407	4 400		1 45	4.040	4 000	0.400	4 500		1 45	0.007	4 570	007	0.400
GENESE		444	147	9,467	1,422	CAPITL	Jan-15		1,292	9,400	1,563	N.Y.C.	Jan-15 Feb-15		1,572	887	2,429
	Feb-15 Mar-15						Feb-15 Mar-15						Mar-15				
	Apr-15												Apr-15				
	May-15						Apr-15 May-15						May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15						Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
	Dec-15						Dec-15						Dec-13				
NORTH	Jan-15	537	300	7,590	2,868	HUD VL	Jan-15	1,006	1,747	4,703	2,133	LONGIL	Jan-15	5,510	3,925	547	1,487
	Feb-15						Feb-15						Feb-15				
	Mar-15						Mar-15						Mar-15				
	Apr-15						Apr-15						Apr-15				
	May-15						May-15						May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15						Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
CENTRL	Jan-15	2,414	939	33,426	776	MILLWD	Jan-15	418	244	716	192	NYISO	Jan-15	22,958	11,774	73,161	14,746
OLIVINE	Feb-15	2,	000	00,120	110		Feb-15		211	110	102		Feb-15		,	10,101	11,710
	Mar-15						Mar-15						Mar-15				
	Apr-15						Apr-15						Apr-15				
	May-15					_	May-15						May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15					_	Jul-15						Jul-15				
	Aug-15					_	Aug-15						Aug-15				
	Sep-15					_	Sep-15						Sep-15				
	Oct-15						Oct-15					-	Oct-15				
	Nov-15					-	Nov-15					-	Nov-15				
	Dec-15						Dec-15				1		Dec-15			<u> </u>	



Market Mitigation and Analysis Prepared: 2/3/2015 12:57 PM

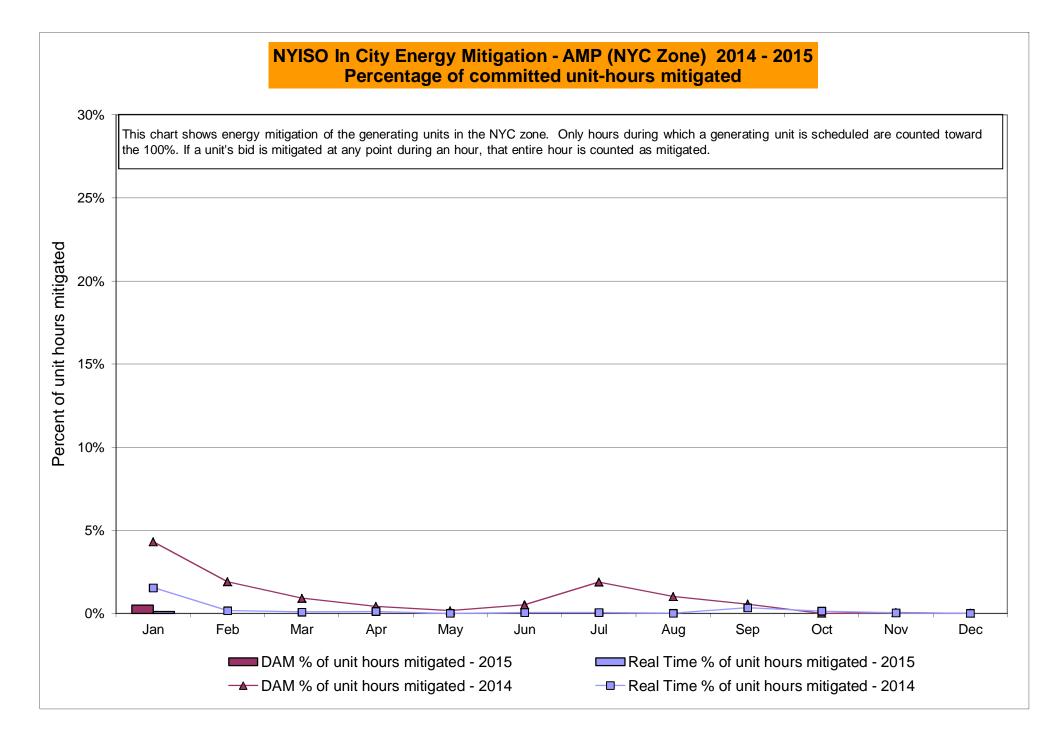


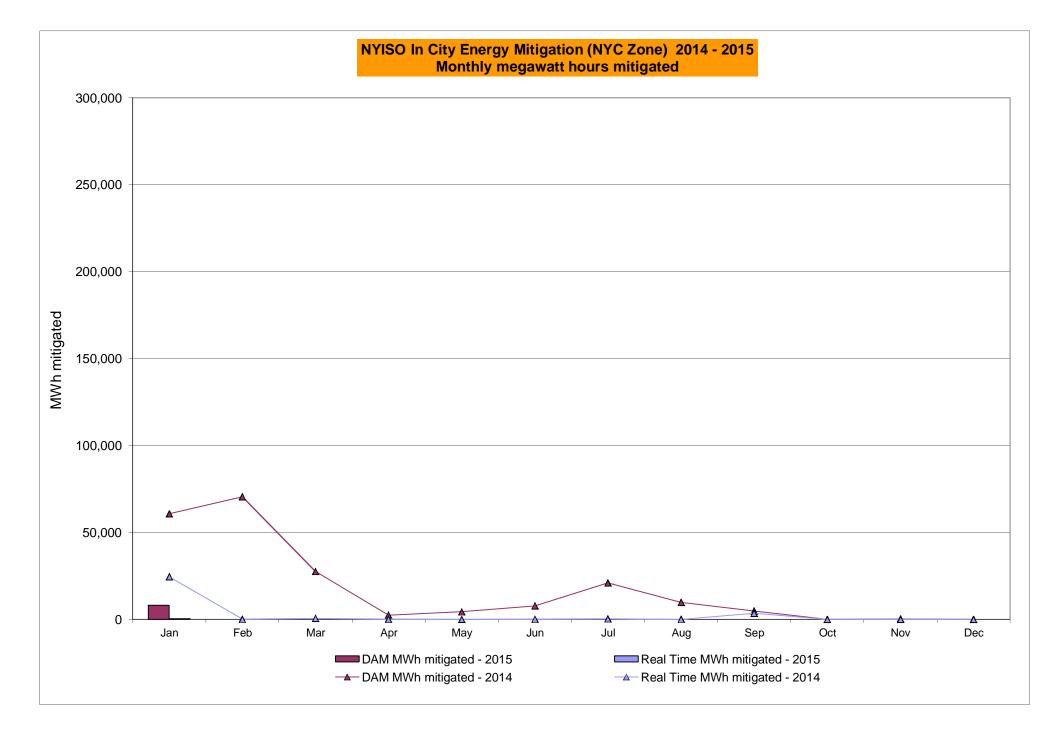


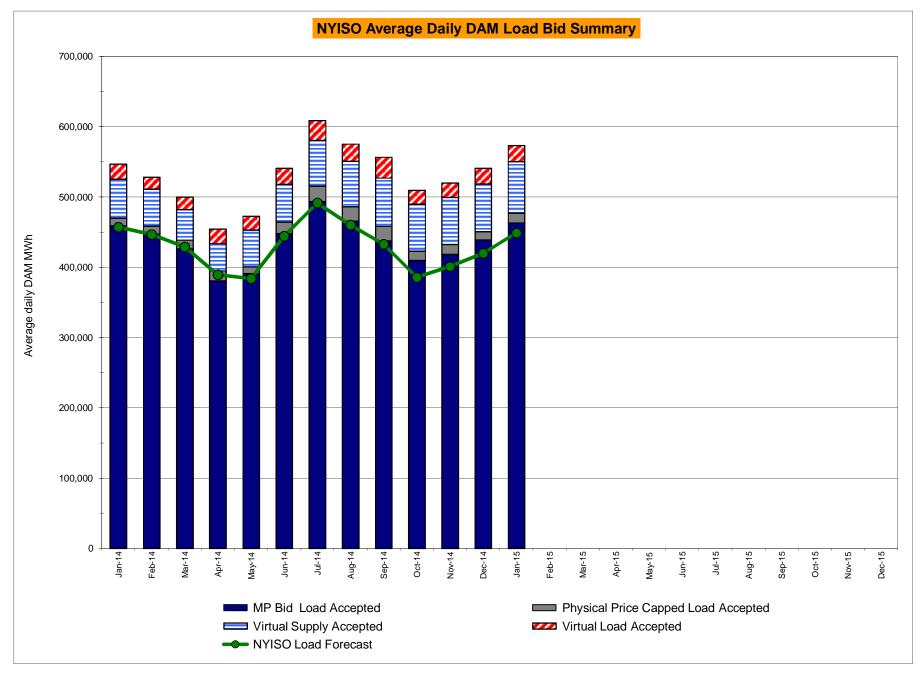


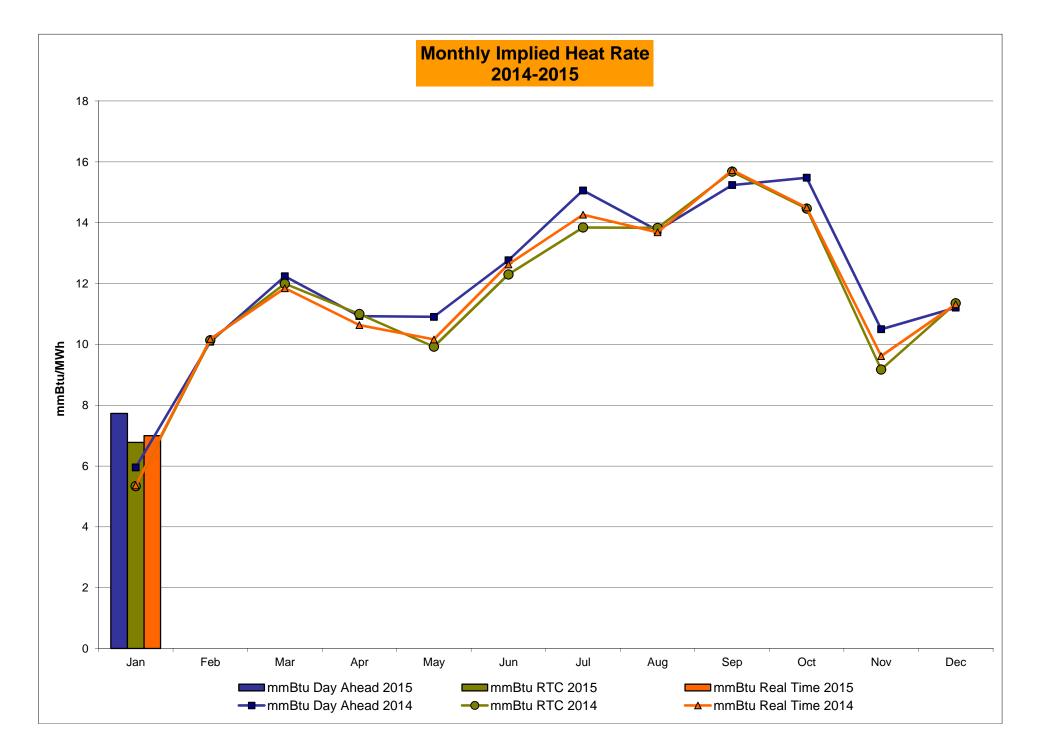
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

<u>2015</u>	January	February	March	<u>April</u>	May	June	July	August	September	October	November	December
Day Ahead Market 10 Min Spin East	5.92											
10 Min Spin Last	4.07											
10 Min Non Synch East	2.30											
10 Min Non Synch West	0.90											
30 Min East	0.50											
30 Min West	0.77											
Regulation	8.84											
-												
<u>RTC Market</u> 10 Min Spin East	1.20											
10 Min Spin Last	0.74											
10 Min Non Synch East	0.74											
10 Min Non Synch West	0.00											
30 Min East	0.00											
30 Min West	0.00											
Regulation	7.45											
NYCA Regulation Movement	0.21											
Real Time Market												
10 Min Spin East	2.12											
10 Min Spin West	1.44											
10 Min Non Synch East	0.12											
10 Min Non Synch West	0.00											
30 Min East	0.00											
30 Min West	0.00											
Regulation	8.12											
NYCA Regulation Movement	0.20											
2014	Januarv	Februarv	March	April	Mav	June	Julv	August	September	October	November	December
2014 Day Ahead Market	January	<u>February</u>	March	<u>April</u>	<u>May</u>	June	July	<u>August</u>	September	<u>October</u>	November	<u>December</u>
2014 Day Ahead Market 10 Min Spin East	<u>January</u> 17.19	<u>February</u> 12.62	<u>March</u> 13.27	<u>April</u> 8.57	<u>May</u> 4.77	<u>June</u> 5.11	<u>July</u> 5.37	<u>August</u> 5.33	<u>September</u> 5.66	<u>October</u> 9.41	<u>November</u> 7.04	<u>December</u> 5.73
Day Ahead Market		-						-	-			
Day Ahead Market 10 Min Spin East	17.19	12.62	13.27	8.57	4.77	5.11	5.37	5.33	5.66	9.41	7.04	5.73
Day Ahead Market 10 Min Spin East 10 Min Spin West	17.19 10.02	12.62 7.32	13.27 6.36	8.57 4.47	4.77 2.92	5.11 2.69	5.37 2.54	5.33 2.96	5.66 3.41	9.41 3.76	7.04 3.82	5.73 3.82
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	17.19 10.02 8.40	12.62 7.32 4.78	13.27 6.36 5.86	8.57 4.47 4.44	4.77 2.92 2.86	5.11 2.69 3.37	5.37 2.54 3.65	5.33 2.96 2.85	5.66 3.41 3.08	9.41 3.76 4.40	7.04 3.82 3.58	5.73 3.82 2.45
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West	17.19 10.02 8.40 2.02 1.77 1.77	12.62 7.32 4.78 1.23 0.93 0.93	13.27 6.36 5.86 0.70 0.47 0.47	8.57 4.47 4.44 0.55 0.24 0.24	4.77 2.92 2.86 1.06 0.09 0.09	5.11 2.69 3.37 0.96 0.08 0.08	5.37 2.54 3.65 0.83 0.08 0.08	5.33 2.96 2.85 0.49 0.04 0.04	5.66 3.41 3.08 0.91 0.21 0.21	9.41 3.76 4.40 0.27 0.14 0.14	7.04 3.82 3.58 0.89 0.53 0.53	5.73 3.82 2.45 0.95 0.60 0.60
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	17.19 10.02 8.40 2.02 1.77	12.62 7.32 4.78 1.23 0.93	13.27 6.36 5.86 0.70 0.47	8.57 4.47 4.44 0.55 0.24	4.77 2.92 2.86 1.06 0.09	5.11 2.69 3.37 0.96 0.08	5.37 2.54 3.65 0.83 0.08	5.33 2.96 2.85 0.49 0.04	5.66 3.41 3.08 0.91 0.21	9.41 3.76 4.40 0.27 0.14	7.04 3.82 3.58 0.89 0.53	5.73 3.82 2.45 0.95 0.60
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West	17.19 10.02 8.40 2.02 1.77 1.77	12.62 7.32 4.78 1.23 0.93 0.93	13.27 6.36 5.86 0.70 0.47 0.47	8.57 4.47 4.44 0.55 0.24 0.24	4.77 2.92 2.86 1.06 0.09 0.09	5.11 2.69 3.37 0.96 0.08 0.08	5.37 2.54 3.65 0.83 0.08 0.08	5.33 2.96 2.85 0.49 0.04 0.04	5.66 3.41 3.08 0.91 0.21 0.21	9.41 3.76 4.40 0.27 0.14 0.14	7.04 3.82 3.58 0.89 0.53 0.53	5.73 3.82 2.45 0.95 0.60 0.60
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation	17.19 10.02 8.40 2.02 1.77 1.77	12.62 7.32 4.78 1.23 0.93 0.93	13.27 6.36 5.86 0.70 0.47 0.47	8.57 4.47 4.44 0.55 0.24 0.24	4.77 2.92 2.86 1.06 0.09 0.09	5.11 2.69 3.37 0.96 0.08 0.08	5.37 2.54 3.65 0.83 0.08 0.08	5.33 2.96 2.85 0.49 0.04 0.04	5.66 3.41 3.08 0.91 0.21 0.21	9.41 3.76 4.40 0.27 0.14 0.14	7.04 3.82 3.58 0.89 0.53 0.53	5.73 3.82 2.45 0.95 0.60 0.60
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29	8.57 4.47 4.44 0.55 0.24 0.24 9.12	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67	9.41 3.76 4.40 0.27 0.14 0.14 8.21	7.04 3.82 3.58 0.89 0.53 0.53 7.74	5.73 3.82 2.45 0.95 0.60 0.60 7.12
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00	$\begin{array}{c} 4.77\\ 2.92\\ 2.86\\ 1.06\\ 0.09\\ 0.09\\ 7.99\\ \end{array}$	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15
Day Ahead Market10 Min Spin East10 Min Spin West10 Min Non Synch East10 Min Non Synch West30 Min East30 Min WestRegulationRTC Market10 Min Spin East10 Min Spin West10 Min Non Synch East10 Min Non Synch West30 Min Non Synch West30 Min East30 Min East30 Min East30 Min East30 Min West	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 0.00	$\begin{array}{c} 4.77\\ 2.92\\ 2.86\\ 1.06\\ 0.09\\ 0.09\\ 7.99\\ \end{array}$	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 0.08 30.21	12.62 7.32 4.78 1.23 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 0.00 29.03	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 0.00 9.42	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99
Day Ahead Market10 Min Spin East10 Min Spin West10 Min Non Synch East10 Min Non Synch West30 Min East30 Min WestRegulationRTC Market10 Min Spin East10 Min Spin West10 Min Non Synch East10 Min Non Synch West30 Min Non Synch West30 Min East30 Min East30 Min East30 Min East30 Min West	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 0.00	$\begin{array}{c} 4.77\\ 2.92\\ 2.86\\ 1.06\\ 0.09\\ 0.09\\ 7.99\\ \end{array}$	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15
Day Ahead Market         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min West         Regulation         RTC Market         10 Min Spin East         10 Min Spin East         10 Min Non Synch West         10 Min Non Synch West         30 Min East         30 Min Non Synch West         30 Min East         30 Min East         30 Min Vest         Regulation         NYCA Regulation Movement         Real Time Market	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 0.08 30.21	12.62 7.32 4.78 1.23 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 0.00 29.03	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64	$\begin{array}{c} 4.77\\ 2.92\\ 2.86\\ 1.06\\ 0.09\\ 0.09\\ 7.99\\ \end{array}$	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}\\ \begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 0.00\\ 10.36\\ 0.20\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99
Day Ahead Market         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min East         30 Min East         30 Min East         10 Min Spin East         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min East         30 Min East         30 Min West         Regulation         NYCA Regulation Movement         Real Time Market         10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 0.08 30.21	12.62 7.32 4.78 1.23 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 0.00 29.03	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 0.00 9.42	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45
Day Ahead Market         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min East         30 Min Synch West         30 Min West         Regulation         RTC Market         10 Min Spin East         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min East         30 Min East         30 Min East         30 Min West         Regulation         NYCA Regulation Movement         Real Time Market         10 Min Spin East         10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 30.21 0.28 19.64 13.10	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 0.00 29.03 0.27 15.48 11.80	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35 0.26 12.19 9.11	$\begin{array}{c} 8.57\\ 4.47\\ 4.44\\ 0.55\\ 0.24\\ 9.12\\ \hline\\ 5.34\\ 1.61\\ 1.14\\ 0.00\\ 0.00\\ 0.00\\ 9.64\\ 0.17\\ \hline\\ 4.15\\ 0.94\\ \end{array}$	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97 0.18 1.96 0.76	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60	9.41 3.76 4.40 0.27 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14
Day Ahead Market         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min West         Regulation         RTC Market         10 Min Spin East         10 Min Non Synch East         10 Min Non Synch Kest         30 Min East         30 Min East         30 Min East         30 Min East         30 Min Kest         Regulation         NYCA Regulation Movement         Real Time Market         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 0.08 30.21 0.28 19.64 13.10 9.03	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80 0.70	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59	$\begin{array}{c} 8.57\\ 4.47\\ 4.44\\ 0.55\\ 0.24\\ 0.24\\ 9.12\\ \hline\\ 5.34\\ 1.61\\ 1.14\\ 0.00\\ 0.00\\ 0.00\\ 9.64\\ 0.17\\ \hline\\ 4.15\\ 0.94\\ 0.93\\ \end{array}$	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57 1.08 0.92	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60 2.09	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}$	$\begin{array}{c} 7.04\\ 3.82\\ 3.58\\ 0.89\\ 0.53\\ 0.53\\ 7.74\\ 2.86\\ 2.46\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.42\\ 0.20\\ 4.51\\ 4.12\\ 0.00\\ \end{array}$	5.73 3.82 2.45 0.95 0.60 7.12 6.51 3.48 3.62 1.39 0.15 9.99 0.17 8.45 4.14 5.23
Day Ahead Market10 Min Spin East10 Min Spin West10 Min Non Synch East10 Min Non Synch West30 Min East30 Min WestRegulationRTC Market10 Min Spin East10 Min Non Synch East10 Min Non Synch East10 Min Non Synch West30 Min West30 Min West30 Min West30 Min West30 Min East30 Min West30 Min East30 Min East30 Min East30 Min Spin East10 Min Spin West10 Min Non Synch East10 Min Non Synch West10 Min Non Synch West	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 30.21 0.28 19.64 13.10 9.03 3.37	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48	$\begin{array}{c} 8.57\\ 4.47\\ 4.44\\ 0.55\\ 0.24\\ 9.12\\ \hline\\ 5.34\\ 1.61\\ 1.14\\ 0.00\\ 0.00\\ 0.00\\ 9.64\\ 0.17\\ \hline\\ 4.15\\ 0.94\\ 0.93\\ 0.00\\ \end{array}$	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00 0.00	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60 2.09 0.05	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}$	$\begin{array}{c} 7.04\\ 3.82\\ 3.58\\ 0.89\\ 0.53\\ 0.53\\ 7.74\\ 2.86\\ 2.46\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.42\\ 0.20\\ \end{array}$	5.73 3.82 2.45 0.95 0.60 7.12 6.51 3.48 3.62 1.39 0.15 9.99 0.17 8.45 4.14 5.23 1.69
Day Ahead Market         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min West         Regulation         RTC Market         10 Min Spin East         10 Min Spin East         10 Min Non Synch West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min West         Regulation         NYCA Regulation Movement         Real Time Market         10 Min Spin East         10 Min Non Synch West         30 Min East         30 Min East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28 19.64 13.10 9.03 3.37 1.10	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11	$\begin{array}{c} 8.57\\ 4.47\\ 4.44\\ 0.55\\ 0.24\\ 9.12\\ \hline\\ 5.34\\ 1.61\\ 1.14\\ 0.00\\ 0.00\\ 0.00\\ 9.64\\ 0.17\\ \hline\\ 4.15\\ 0.94\\ 0.93\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 4.77\\ 2.92\\ 2.86\\ 1.06\\ 0.09\\ 0.09\\ 7.99\\ \end{array}$	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60 2.09 0.05 0.00	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}$ $\begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 0.00\\ 10.36\\ 0.20\\ \end{array}$ $\begin{array}{c} 4.47\\ 3.10\\ 0.42\\ 0.20\\ 0.00\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16
Day Ahead Market10 Min Spin East10 Min Spin West10 Min Non Synch East10 Min Non Synch West30 Min East30 Min WestRegulationRTC Market10 Min Spin East10 Min Spin West10 Min Spin West10 Min Non Synch West30 Min Vest8 Min Non Synch West30 Min East30 Min East30 Min East30 Min East30 Min East30 Min Spin East10 Min Non Synch West30 Min Cast30 Min Min Non Synch West30 Min Min Non Synch West30 Min East30 Min East30 Min East30 Min Kast30 Min Kast30 Min Kast30 Min Kast	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28 19.64 13.10 9.03 3.37 1.10 0.92	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00 0.00 0.00 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11 0.11	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.74 0.00 0.00 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60 2.09 0.05 0.00 0.00	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16 0.16 0.16
Day Ahead Market         10 Min Spin East         10 Min Spin West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min West         Regulation         RTC Market         10 Min Spin East         10 Min Spin East         10 Min Non Synch West         10 Min Non Synch East         10 Min Non Synch West         30 Min East         30 Min West         Regulation         NYCA Regulation Movement         Real Time Market         10 Min Spin East         10 Min Non Synch West         30 Min East         30 Min East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28 19.64 13.10 9.03 3.37 1.10	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11	$\begin{array}{c} 8.57\\ 4.47\\ 4.44\\ 0.55\\ 0.24\\ 9.12\\ \hline\\ 5.34\\ 1.61\\ 1.14\\ 0.00\\ 0.00\\ 0.00\\ 9.64\\ 0.17\\ \hline\\ 4.15\\ 0.94\\ 0.93\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 4.77\\ 2.92\\ 2.86\\ 1.06\\ 0.09\\ 0.09\\ 7.99\\ \end{array}$	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60 2.09 0.05 0.00	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}$ $\begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 0.00\\ 10.36\\ 0.20\\ \end{array}$ $\begin{array}{c} 4.47\\ 3.10\\ 0.42\\ 0.20\\ 0.00\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16

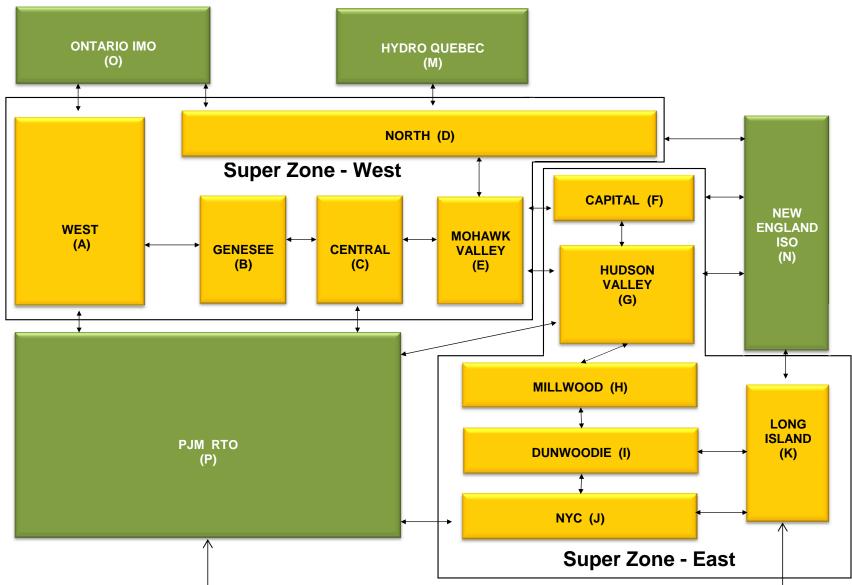








# NYISO LBMP ZONES



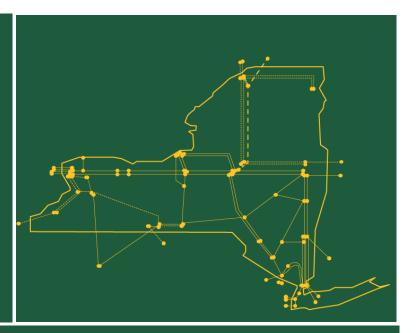
Market Mitigation and Analysis Prepared: 2/3/2015 3:50 PM

### Billing Codes for Chart 4-C

Chart - C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81205	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee Balancing	81208	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81209	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81213	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee DAM	81201	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	84001	EDRP/SCR Demand Response - Local
Bid Production Cost Guarantee DAM	84101	EDRP/SCR Demand Response - NYISO Wide
Bid Production Cost Guarantee DAM	81401	DAM Price Responsive Load Program
Bid Production Cost Guarantee DAM	81202	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM	81206	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	81207	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM Virtual	81501	DAM Virtual Bid Production Cost Guarantee
DAM Contract Balancing	81315	DAM Contract Balancing
DAM Contract Balancing	81317	DAM Contract Balancing
Local Reliability Balancing	81002	Balancing Local Reliability Bid Production Cost Guarantee
Local Reliability Balancing	83901	Margin Restoration (MOB) Revenue
Local Reliability DAM	81001	DAM Local Reliability Bid Production Cost Guarantee
NYISO Cost of Operations	80901	NYISO Cost Of Operations
NYISO Cost of Operations	80902	NYISO Cost Of Operations
NYISO Cost of Operations	83501	NYISO Cost Of Operations
NYISO Cost of Operations	83502	NYISO Cost Of Operations
Residuals Balancing	81302	Balancing Market Energy Residual
Residuals Balancing	81304	Balancing Market Loss Residual
Residuals Balancing	81305	Balancing Market Congestion Balancing
Residuals Balancing	81306	Emergency Energy Purchases
Residuals Balancing	81307	Emergency Energy Sales
Residuals Balancing	81309	Balancing Market Energy Residual
Residuals Balancing	81311	Balancing Market Loss Residual
Residuals Balancing	81312	Balancing Market Congestion Balancing
Residuals Balancing	81313	Emergency Energy Purchases
Residuals Balancing	81314	Emergency Energy Sales
Residuals DAM	81301	Day Ahead Market Energy Residual
Residuals DAM	81303	Day Ahead Market Loss Residual
Residuals DAM	81308	Day Ahead Market Energy Residual
Residuals DAM	81310	Day Ahead Market Loss Residual



The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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